

Patent Claims

1. Apparatus (2) for generating electrical discharge in a fluid medium (3) for generating electrohydraulic shock waves, with electrodes (1) consisting of a metallic work material in which fluid medium (3) an electrical voltage can be applied to the electrodes (1) for the purpose of generating a voltage breakdown between the tips of the electrodes (1),
5 **characterized in that** the metallic work material consists of a titanium alloy with a hardness of at least 300 HV to 650 HV.
2. Apparatus according to Claim 1, in which the titanium alloy has a titanium component of
10 80% - 94%.
3. Apparatus according to Claim 1 or 2, in which the titanium alloy has an aluminum component greater than 4%.
- 15 4. Apparatus according to one of Claims 1-3, in which the titanium alloy has a vanadium component greater than 2%.
5. Apparatus according to one of Claims 1-4, in which the titanium alloy has an iron component greater than 0.1%.
- 20 6. Apparatus according to one of Claims 1-5, in which the titanium alloy has a tin component greater than 1%.
7. Apparatus according to Claims 1-5, in which the aluminum component is 6%, the
25 vanadium component 4%, the iron component 0.25% or less, the oxygen component 0.2% or less and the titanium component 90%.
8. Apparatus according to Claims 1, 2, 3, 4 and 6, in which the aluminum component is 6%, the vanadium component 6%, the tin component 2% and the titanium component 86%.
- 30 9. Electrode (1) for use in an apparatus (2) in accordance with one of the previous claims.